

NAME OF WORK:- "CONSTRUCTION OF SIX WATER STORAGE STRUCTURE IN R R Nagara CONSTITUENCY PARKS, RR NAGARA ZONE BANGALORE".

BOQ

Sl No	Descriptions	Unit	Qty	Rate	Amount
1	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work. In all kinds of soils Depth upto 1.5 m (Vol-I P.No-5 I.No-1.4.1 CSR-2023-24)	m ³	115.58	266.20	30768.46
2	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:4:8 Using 40 mm nominal size graded crushed coarse aggregates (Vol-I P.No-15 I.No-2.1.2 CSR- 2023-24)	m ³	8.06	6230.40	50241.95
3	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Vol-I P.No-16 I.No- 2.3.2 CSR-2023-24)	m ³	32.81	9622.80	315704.82
4	Providing waterproofing & durability enhancing admixture with approval from MORT&H for use on road & bridge projects with IRC accreditation. The Dosage should be at 0.8% by weight of cement + cementitious material (or such dosage as desired to meet durability criteria) as per technical specification. (Vol-I P.No-17 I.No- 2.7 CSR-2023-24)	Kg	89.24	324.50	28957.65
5	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(Vol-2 P.No-41 I.No-8.2.1 CSR-2023-24)	m ²	119.76	324.50	38862.12

Sl No	Descriptions	Unit	Qty	Rate	Amount
6	Providing 12 mm cement plaster finished with a floating coat of neat cement of mix :1:3 (1 cement: 3 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge..(Vol-II P.No-41 I.No-8.4.1 CSR-2023-24)	m2	23.76	355.30	
7	UGT/OHT (inside) waterproofing with Anti-microbial Coating Providing and Applying two component, water-based food grade epoxy resin coating on inside surface of Potable water tank having anti-algae, antifungal, Non-toxic, hygiene cum damp-proof coating Certified by CFTRI as per 21 CFR 175 – 300 of US – FDA, having mixing Ratio (Base: Hardener: Water) – 1:1:1 to be applied @ 0.35 Kg/m2 in 2 coats. Ensure that this coating is applied over the protective plaster, and that Item No. 4 is completed across the entire surface prior to applying the protective plaster. The Waterproofing material shall have Specific Gravity: 1.2, Water vapor permeance: 244.48 g/m2/24 hrs, as per IS 7809/Pt 2/1977, Adhesion strength: 2 N/mm2 as per ASTM D 4541: 02. The finished cost to include surface preparation completely as per specification.(Vol-II P.No-152 I.No-15.14 CSR-2023-24)	m2	119.76	1840.30	220394.33
8	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification.a. Buildings (Vol-I P.No-18 I.No-2.11a CSR-2023-24)	t	3.61	98402.70	355123.54
9	Providing and fixing MS inspection door of size 60 cms x 60 cms, including MS frame made of 50x50x6mm angle, shutters made of 3mm thick MS sheets, with hinges, locking arrangements at top etc. including painting with anticorrosive approved paint etc. complete including all lead and lifts etc. (Vol-V P.No-85 I.No-7.3 CSR-2023-24)	Each	6.00	2354.00	14124.00
10	Providing PVC Rungs of size 263x164 of thickness 25x23, having steel reinforcement of 12mm TMT for Footstep to the Sump tank. The Rungs should Encapsulated with PVC. Properly fixed to reinforcement before concreting, placed horizontally to the tube level etc including cost of all materials, labour etc., complete as per specifications and as per directions of the engineer incharge of the work	Nos	42.00	348.00	14616.00

	Descriptions	Unit	Qty	Rate	Amount
1	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In all kinds of soils. Depth upto 1.50m (Vol-I P.No- 6 I.No-1.6.1 CSR-2023-24)	m ³	270.00	532.40	143748.00
12	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m, and lift upto 1.5 m. Including cost of all labour complete as per specifications (Vol-I P.No-7 I.No-1.10 CSR-2023-24)	m ³	304.99	176.00	53678.59
13	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 20 mm nominal dia pipes (Vol II P.No-122 I.No-13.33.2 CSR-2023-24)	Rmtr	720.00	238.70	171864.00
14	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 25 mm nominal dia pipes (Vol II P.No-122 I.No-13.33.3 CSR-2023-24)	Rmtr	300.00	325.60	97680.00
15	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 32 mm nominal dia pipes (Vol II P.No-122 I.No-13.33.4 CSR-2023-24)	Rmtr	300.00	409.20	122760.00

Sl No	Descriptions	Unit	Qty	Rate	Amount
16	Providing PVC ringite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. complete For PVC pipes 50mm dia., 6 kg/sqcm & class 5 (Vol V P.No-113 I.No-10.1.3 CSR-2023-24)	Rmtr	360.00	111.10	39996.00
17	Providing PVC ringite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. complete For PVC pipes 63mm dia., 6 kg/sqcm & class 3 (Vol V P.No-113 I.No-10.1.4 CSR-2023-24)	Rmtr	600.00	177.10	106260.00
18	Providing, Single Phase Submersible Pump Sets of 100mm dia (4 inch) suitable for bore well confirming to IS 8034-2000 specifications, to work site with testing of as per instructions of engineer incharge of work and latest amendments etc. complete. 1.00 HP/0.75KW 7 STG (Vol V P.No-149 I.No-13.6.1 CSR-2023-24)	Each	6.00	14649.80	87898.80
19	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm (Vol V P.No-154 I.No-13.24.1 CSR-2023-24)	Each	12.00	1375.00	16500.00
20	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm (Vol V P.No-157 I.No-13.25.1 CSR-2023-24)	Each	6.00	1375.00	8250.00
21	Supply, installing, testing and commissioning COMMON control panel consisting of the following INCOMING: 1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrical Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no for outdoor type NOTE: 1) DOL- Direct Online Starter 2) S-D- Star Delta Starter etc. complete. Upto 3 HP pumps(Vol V P.No-155 I.No-13.25.1 CSR-2023-24)	Each	6.00	8250.00	49500.00

Page No: 4 of 5

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1. ವಿಶೇಷ ಆಯ್ಕೆ -
 2. ಉಪನಿರ್ದೇಶಕರು, ತೋಟಗಾರಿಕೆ -
 3. ಹಿರಿಯ ಸಹಾಯಕ ತೋಟಗಾರಿಕೆ ನಿರ್ದೇಶಕರು -
- ಇವರಿಗೆ ಸಹಿ.



	Descriptions	Unit	Qty	Rate	Amount
22	Supply and delivery at site Brand new best make PVC insulated cable of Flat 3 core (sheathed) of nominal cross sectional area as per IS. 694-1990 with ISI Mark and as per its latest amendments. 1x3x1.5 Sqm (Vol V P.No-155 I.No-13.22.1 CSR-2023-24)	Mtr	360.00	71.50	25740.00
23	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge to the appropriate disposal area. (Vol II P.No-193 I.No-19.59 CSR-2023-24)	m3	80.58	400.40	32264.23
Total amount					20,33,374.42
Add GST 18%					3,66,007.40
Miscellaneous and round off					618.19
GRAND TOTAL AMOUNT					24,00,000.00

Senior Assistant Director of
Horticulture (R R Nagara)
Bruhat Bangalore Mahanagara Palike

(Deputy Director of Horticulture)
Bruhat Bangalore Mahanagara Palike

DTS APPROVED

Chief Engineer (Lakes)
Bruhat Bangalore Mahanagara Palike

CERTIFICATE

- 1 Area is Within the BBMP Limits
- 2 Certified that I have personally inspected the area and prepared the estimate
- 3 Certified that the work proposed in this estimate is not included in any other scheme.
- 4 Estimate are Prepared Based on Horticulture Department BBMP SR Rates, PWD SR 2023-24